WORKPAPER 4.0 PAGE 2 OF 3

## PHYSICAL COLLOCATION Verizon - New Jersey FCC - 1

	A	<u>B</u>	<u>C</u>	<u>D</u>	Ē	<u>E</u>
	<u>!TEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 4.0, PG 3, LINE 10	-	-	\$232.28	\$232.28
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24F	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$646.96	\$646.96
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$646.96	\$646.96
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22F	0.0106	-	-	0.0106
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23F	-	0.1687	-	0.1687
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.85		-	\$6.85
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$109.16	-	\$109.16
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.85	\$109.16	\$646.96	\$762.97
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26F	\$2.00	\$31.87	\$188.89	\$222.76

WORKPAPER 4.0 PAGE 1 OF 3

#### PHYSICAL COLLOCATION Verizon - New Jersey FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	Ē	Ē
	ITEM	SOURCE	LAND	8LDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 4.0, PG 2 LINE 10	\$6.85	\$109.16	\$646.96	\$762.97
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.37	\$25.76	\$28.13
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.77	\$9.09	\$35.68	\$45.55
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.40	\$4.72	\$18.51	\$23.62
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.18	\$2.82	\$38.87	\$41.86
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.72	\$27.93	\$32.94
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.08</u>	<u>\$1.35</u>	\$8.02	<u>\$9.46</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.73	\$25.06	\$154.76	\$181.56
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26F	\$0.51	\$7.32	\$45.18	\$53.01

WORKPAPER 4.0 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - New Jersey FCC NO. 1

	DC FOWER	- LESS THAN OR EQUAL	10 00 AMI	<u> </u>		
	A	₿	<u>c</u>	D	E	E
LINE NO.	<u>ITEM</u>	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23.879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5,43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0. Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
5	Statewide Unit Investment Per AMP	\$8.62	\$1.68	\$4.50	\$1.58	\$0.85
_				•		
c	Rectifiers	Engineering	6	e	6	7
6 7	Quantity AMPS per unit	Engineering	400	6 200	6 200	50
8	Tot. AMPS	Engineering ( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42.046	\$42,046	\$15.900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
14	Statewide Unit Investment Per AMP	\$37.92	\$8.59	\$20.61	\$7.25	\$1.47
	_	<u> </u>				
	<u>Batteries</u>			_		_
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60 0.4724	\$37.60
20	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
21	Statewide Unit Investment Per AMP	\$38.10	\$12.15	\$18.43	\$6.48	\$1.05
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Cal F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
26	Statewide Unit Investment Per AMP	\$34.95	\$9.68	\$16.34	\$7.54	\$1.39
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
31	Statewide Unit Investment Per AMP	\$10.16	\$2.71	\$4.77	\$2.45	\$0.24
20	Emergency engine/turbine (auto start)	•	2.005	4 700		40.4
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35 36	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36 37	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
38	Total Investment Unit Investment Per AMP	(L35 + L36)	\$176,394 \$96.73	\$108,736 \$89.48	\$77,203	\$53,684 \$176,71
39	Statewide Weighting	(L37 / L34) WP 8.0, Col F, Lns 27-30	0.3097	0.4901	\$99.27 0.1724	0.0278
40	Statewide Unit Investment Per AMP	\$95.84	\$29.96	\$43.85	\$17.11	\$4.91
			<b>\</b>		•	
	<b>Battery Distribution Fuse Bay</b>					
41	AMP Capacity	Engineering	800	800	800	800
42	Material	Engineering	\$5,355	\$5,355	<b>\$</b> 5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
45	Statewide Unit Investment Per AMP	\$6.69	\$2.07	\$3.28	\$1.15	\$0 19
	Total Unit Investment - (Less than or					
46	Equal to 60 AMP's) - Sum Lines	\$232.28				
	(5C+14C+21C+26C+31C+40C+45C)					
	,					

WORKPAPER 4.1 PAGE 2 OF 3

# PHYSICAL COLLOCATION Verizon - New Jersey FCC - 1

	<u>A</u>	<u>B</u>	C	D	<u>E</u>	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 4.0, PG 3, LINE 10	-	-	\$233.31	\$233.31
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24F	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$649.81	\$649.81
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$649.81	\$649.81
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22F	0.0106	-	-	0.0106
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23F	-	0.1687	-	0.1687
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.88		-	\$6.88
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$109.64	-	\$109.64
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.88	\$109.64	\$649.81	\$766.33
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26F	\$2.01	\$32.01	\$189.72	\$223.74

WORKPAPER 4.1 PAGE 1 OF 3

## PHYSICAL COLLOCATION Verizon - New Jersey FCC - 1

	<b>A</b>	₿	<u>c</u>	<u>D</u>	E	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 4.0, PG 2 LINE 10	\$6.88	\$109.64	\$649.81	\$766.33
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.38	\$25.87	\$28.25
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.78	\$9.13	\$35.84	\$45.75
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.40	\$4.74	\$18.59	\$23.73
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.18	\$2.83	\$39.04	\$42.04
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.74	\$28.05	\$33.09
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.09	<b>\$1.36</b>	<u>\$8.06</u>	<u>\$9.50</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.74	\$25.17	\$155.44	\$182.36
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26F	\$0.51	\$7.35	\$45.38	\$53.24

WORKPAPER 4.1 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - New Jersey FCC NO. 1

#### DC POWER - GREATER THAN 60 AMPS

	<u> </u>	<u>B</u>	<u>c</u>	D	E	<u>F</u>
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0 4901	0.1724	0.0278
5	Statewide Unit Investment Per AMP	\$8.62	\$1.68	\$4.50	\$1.58	\$0.85
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
14	Statewide Unit Investment Per AMP	\$37.92	\$8.59	\$20.61	\$7.25	\$1.47
	<u>Batteries</u>					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18 19	Total Investment Unit Investment Per AMP	Engineering (L18 / L17)	\$80,952 \$39.22	\$34,965 \$37,60	\$34,965 \$37.60	\$23,310 \$37,60
20	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
21	Statewide Unit Investment Per AMP	\$38.10	\$12.15	\$18.43	<b>\$</b> 6.48	\$1.05
	Automatia Progker					
22	Automatic Breaker AMP per Breaker	F	4.000	1,200	800	400
22 23	•	Engineering	1,600 \$50,000	\$40,000	\$35,000	\$20,000
24	Total Investment Unit Investment Per AMP	Engineering (L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
				· ·		
26	Statewide Unit Investment Per AMP	\$34.95	\$9.68	\$16.34	\$7.54	\$1.39
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col F, Lns 27-30	0.3097	0.4901	0.1724	0.0278
31	Statewide Unit Investment Per AMP	\$10.16	\$2.71	\$4.77	\$2.45	\$0.24
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	<b>\$</b> 53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684 \$176.74
38 39	Unit Investment Per AMP Statewide Weighting	(L37 / L34) WP 8.0, Col F, Lns 27-30	\$96.73 0.3097	\$89.48 0.4901	\$99.27 0.1724	\$176.71 0.0278
40	Statewide Unit Investment Per AMP	\$95.84	\$29.96	\$43.85	\$17.11	\$4.91
	Power Plant Distribution Bay	<u>.</u>				
41	AMP Capacity	Engineering	2,600	1,200	1,200	300
42 43	Material	Engineering	\$12,747 \$4.90	\$10,388	\$10,388	\$4.993 \$16.64
43 44	Unit Investment Per AMP Statewide Weighting	(L42 / L41) WP 8.0, Col F, Lns 27-30	\$4.90 0.3097	\$8.66 0.4901	\$8.66 0.1724	\$16.64 0.0278
45	Statewide Unit Investment Per AMP	\$7.72	\$1.52	\$4.24	\$1.49	\$0.46
			- · · ·		÷ •=	

Total Unit Investment - (Greater than 60

AMPs) -Sum Lines

(5C+14C+21C+26C+31C+40C + 45C)

\$233.31

WORKPAPER 5.0 PAGE 2 OF 3

## PHYSICAL COLLOCATION Bell Atlantic - Pennsylvania FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	Ē	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 5.0, PG 3, LINE 10	-	-	\$248.83	\$248.83
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24G	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$693.05	\$693.05
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$693.05	\$693.05
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22G	0.0081	-	-	0.0081
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23G	-	0.1757	-	0.1757
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.58		-	\$5.58
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$121.78	-	\$121.78
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.58	\$121.78	\$693.05	\$820.41
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26G	\$1.62	\$35.34	\$201.12	\$238.08

WORKPAPER 5.0 PAGE 1 OF 3

#### PHYSICAL COLLOCATION Verizon - Pennsylvania FCC - 1

	<u>A</u>	₿	<u>C</u>	D	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 5.0, PG 2 LINE 10	\$5.58	\$121.78	\$693.05	\$820.41
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.50	\$27.84	\$30.34
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.63	\$10.18	\$37.78	\$48.59
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$5.42	\$20.12	\$25.88
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.16	\$3.46	\$39.75	\$43.36
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.22	\$4.86	\$27.65	\$32.73
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.26</u>	<u>\$5.74</u>	<u>\$1.32</u>	<u>\$7.32</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.61	\$32.15	\$154.45	\$188.21
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 6.0, PG 1, LINE 26G	\$0.47	\$9.33	\$44.82	\$54.62

WORKPAPER 5.0 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - Pennsylvania FCC NO. 1

	<u>BOTOWEN</u>	C-EESS THAN ON EGOAL	10 00 AIIII	<u> </u>		
	A	<u>B</u>	Ē	₫	<u>E</u>	<u>E</u>
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)	<b>5</b>	5 000	2.000	2.500	600
1 2	AMP Material	Engineering	5,000	2,600	2,600	600
3	Material Unit Investment Per AMP	Engineering (L2 / L1)	\$27,154 \$5.43	\$23,879 \$9.18	\$23,879 \$9.18	\$18,349 \$30.58
4	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
5	Statewide Unit Investment Per AMP	\$11.29	\$1.12	\$4.17	\$1.89	\$4.12
3	Statewide Onli Investment Per AMP	\$11.29	\$1.12	<b>34.17</b>	\$1.09	<b>⊅4</b> .1∠
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12 13	Unit Investment Per AMP Statewide Weighting	(L11 / L8) WP 8.0, Col G, Lns 27-30	\$27.75 0.2056	\$42.05 0.4 <b>5</b> 39	\$42.05 0.2058	\$53.00 0.1347
14	Statewide Unit Investment Per AMP	\$40.58	\$5.71	\$19.08	<b>\$8.6</b> 5	\$7.14
	Batteries					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18/L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
21	Statewide Unit Investment Per AMP	\$37.93	\$8.06	\$17.07	\$7.74	\$5.06
	Automatic Breaker					
22	Automatic Breaker  AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
26	Statewide Unit Investment Per AMP	\$37.29	\$6.43	\$15.13	\$9.00	\$6.74
	Power Distribution Service Cabinet				40.0	400
27	Amps	Engineering	1,600	800	400	400
28 29	Material	Engineering	\$13,976 \$8.74	\$7,788 \$9.74	\$5,677 \$14.19	\$3,467 \$8,67
30	Unit Investment Per AMP Statewide Weighting	(L28 / L27) WP 8.0. Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
31	Statewide Unit Investment Per AMP	\$10.30	\$1.80	\$4.42	\$2.92	\$1.17
31	Statewide Offit Investment Fel Awir	\$10.50	\$1.00	<b>₽</b> 4.4∠	<b>4</b> 2. <del>3</del> 2	<b>3</b> 1.17
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37 38	Total Investment Unit Investment Per AMP	(L35 + L36) (L37 / L34)	\$176,394 \$96.73	\$108,736 \$89.48	\$77,203 \$99.27	\$53,684 \$176.71
30 39	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
40	Statewide Unit Investment Per AMP	\$104.74	\$19.89	\$40.61	\$20.43	\$23.80
,-			•	*		•=====
	Battery Distribution Fuse Bay					
41	AMP Capacity	Engineering	800	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69 0.2056	\$6.69 0.4539	\$6.69 0.2058	\$6.69 0.1347
44	Statewide Weighting	Service Costs	0.2056	0 4539	0.2058	0.1347
45	Statewide Unit Investment Per AMP	\$6.69	\$1.38	\$3.04	\$1.38	\$0.90
	Total Unit Investment - (Less than or					
46	Equal to 60 AMP's) - Sum Lines	\$248.83				
	(5C+14C+21C+26C+31C+40C+45C)	<del></del>				
	(55: 145:215:255:516:400:400)					

WORKPAPER 5.1 PAGE 2 OF 3

#### PHYSICAL COLLOCATION Verizon - Pennsylvania FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 5.1, PG 3, LINE 10	-	-	\$251.10	\$251.10
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24G	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$699.37	\$699.37
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$699.37	\$699.37
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22G	0.0081	-	-	0.0081
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23G	-	0.1757	-	0.1757
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.63		-	\$5.63
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$122.89	-	\$122.89
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.63	\$122.89	\$699.37	\$827.89
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26G	\$1.64	\$35.66	\$202.95	\$240.24

WORKPAPER 5.1 PAGE 1 OF 3

## PHYSICAL COLLOCATION Verizon - Pennsylvania FCC - 1

	<u>A</u>	В	<u>c</u>	D	<u>E</u>	E
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 5.1, PG 2 LINE 10	\$5.63	\$122.89	\$699.37	\$827.89
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.52	\$28.10	\$30.62
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$10.27	\$38.12	\$49.03
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$5.47	\$20.30	\$26.11
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.16	\$3.49	\$40.11	\$43.76
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.22	\$4.90	\$27.90	\$33.03
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.27</u>	<u>\$5.79</u>	<b>\$</b> 1.33	<u>\$7.38</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.63	\$32.44	\$155.86	\$189.92
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26G	\$0.47	\$9.41	\$45.23	\$55.11

WORKPAPER 5.1 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - Pennsylvania FCC NO. 1

#### DC POWER - GREATER THAN 60 AMPS

	<u>A</u>	В	ç	D	Ē	Ē
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
			1			
5	Statewide Unit Investment Per AMP	\$11.29	\$1.1 <u>2</u>	\$4.17	\$1.89	\$4.12
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	(£6 <b>°L</b> 7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
14	Statewide Unit Investment Per AMP	\$40.58	\$5.71	\$19.08	\$8.65	\$7.14
	<u>Batteries</u>					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0 2056	0.4539	0.2058	0.1347
21	Statewide Unit Investment Per AMP	\$37.93	\$8.06	\$17.07	\$7.74	\$5.06
21	oldowide official volume for the state of th	007.00	40.00	<b>4</b> 17.57	<b>V</b> 1.17	40.00
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0 1347
26	Statewide Unit Investment Per AMP	\$37.29	\$6.43	\$15.13	\$9.00	\$6.74
	Decision Distribution Constitution					
_	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
31	Statewide Unit Investment Per AMP	\$10.30	\$1.80	\$4.42	\$2.92	\$1.17
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2.605	1,736	1,111	434
32	Utilization		2,605 70%	70%	70%	70%
		Engineering				
34	Utilized AMPS	(L32 * L33)	1,824	1.215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0.1347
40	Statewide Unit Investment Per AMP	\$104.74	\$19.89	\$40.61	\$20.43	\$23.80
	Downer Blant Distribution Day					
4.4	Power Plant Distribution Bay		0.000	4.000	4 00	
41	AMP Capacity	Engineering	2,600	1,200	1.200	300
42	Material	Engineering	\$12,747	\$10,388	\$10,388	\$4,993
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66	\$16.64
44	Statewide Weighting	WP 8.0, Col G, Lns 27-30	0.2056	0.4539	0.2058	0 1347
45	Statewide Unit Investment Per AMP	\$8.96	\$1.01	\$3.93	\$1.78	\$2.24

Total Unit Investment - (Greater than 60

46

AMPs) -Sum Lines

(5C+14C+21C+26C+31C+40C + 45C)

\$251.10

WORKPAPER 6.0 PAGE 2 OF 3

# PHYSICAL COLLOCATION Verizon - Virginia FCC - 1

	<u>A</u>	<u>B</u>	Ē	<u>D</u>	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 6.0, PG 3, LINE 10	-	-	\$249.21	\$249.21
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24H	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$694.10	\$694.10
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$694.10	\$694.10
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22H	0.0071	-	-	0.0071
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23H	-	0.1282	-	0.1282
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$4.94		-	\$4.94
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$88.96	-	\$88.96
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$4.94	\$88.96	\$694.10	\$788.00
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26H	\$0.77	\$13.83	\$107.92	\$122.53

WORKPAPER 6.0 PAGE 1 OF 3

# PHYSICAL COLLOCATION Verizon - Virginia FCC - 1

	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	Ē	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 6.0, PG 2 LINE 10	\$4.94	\$88.96	\$694.10	\$788.00
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.94	\$27.56	\$29.50
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.56	\$7.42	\$38.98	\$46.96
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.27	\$3.55	\$18.64	\$22.45
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.06	\$37.17	\$40.40
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$3.46	\$27.02	\$30.67
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.04	\$0.72	\$5.64	<u>\$6.40</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.23	\$20.15	\$155.02	\$176.40
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26H	\$0.19	\$3.13	\$24.10	\$27.43

WORKPAPER 6.0 PAGE J OF 3

#### PHYSICAL COLLOCATION Verizon - Virginia FCC NO. 1

	<u> </u>	В	<u>c</u>	<u>D</u>	Ē	E
		SOURCE	METRO	URBAN	SUBURBAN	<u>.</u> Rural
LINE NO.	ITEM	SOURCE	MEIRO	UNDAN	SUBURBAN	NUNAL
1	Microprocessor Plant (BUSS BAR)  AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0. Col H, Lns 27-30	0.1585	0.4362	0.2869	0 1184
5	Statewide Unit Investment Per AMP	\$11.12	\$0.86	\$4.01	\$2.63	\$3.62
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83,33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455 \$42.05	\$50,455	\$18,550
12 13	Unit Investment Per AMP Statewide Weighting	(£11 / £8) WP 8.0, Col H, Lns 27-30	\$27.75 0.1585	\$42.05 0.4362	\$42.05 0.2869	\$53.00 0.1184
14	Statewide Unit Investment Per AMP	\$41.08	\$4.40	\$18.34	\$12.06	\$6.28
46	Batteries	Engineerine	3	3	3	2
15 16	Strings AMPs per String	Engineering Engineering	688	310	3 310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
21	Statewide Unit Investment Per AMP	\$37.85	\$6.22	\$16.40	\$10.79	\$4.45
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
26	Statewide Unit Investment Per AMP	\$37.97	\$4.95	\$14.54	\$12.55	<b>\$</b> 5.92
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29 30	Unit Investment Per AMP Statewide Weighting	(L28 / L27) WP 8.0, Col H, Lns 27-30	\$8.74 0.1585	\$9.74 0.4362	\$14.19 0.2869	\$8.67 0.1184
31	Statewide Unit Investment Per AMP	\$10.73	\$1.38	\$4.25	\$4.07	\$1.03
0,	Statewise Strik Wilesimerit C. 7400	<b>V10.10</b>	41.00	<b>4</b> 1.25	<b>4</b> 4.37	• 1.00
	Emergency engine/turbine (auto start)	_	2 225	4 700		
32 33	AMP Capacity Utilization	Engineering Engineering	2,605 70%	1,736 70%	1,111 70%	434 70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg, Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41.874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39 40	Statewide Weighting Statewide Unit Investment Per AMP	WP 8.0, Col H, Lns 27-30 \$103.77	0 1585 \$15 33	0.4362 \$39.03	0.2869 \$28.48	<u>0.1184</u> \$20.92
40	Statewide Unit Investment Fer AMP	\$103.77	\$15.33	ф39.U3	\$20.40	\$20.52
	Battery Distribution Fuse Bay	<b>.</b>		0.77	o	
41	AMP Capacity Material	Engineering	800 \$5.355	800 \$5.355	800 \$6.355	800 ee 356
42 43	Material Unit Investment Per AMP	Engineering (L42 / L41)	\$5,355 \$6.69	\$5,355 \$6.69	\$5,355 \$6.69	\$5,355 \$6,69
43 44	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0 1184
45	Statewide Unit Investment Per AMP	\$6.69	\$1.06	\$2.92	\$1.92	\$0.79
	<b>-</b>					
	Total Unit Investment - (Less than or	4040.04				
46	Equal to 60 AMP's) - Sum Lines	\$249.21				
	(5C+14C+21C+26C+31C+40C+45C)					

WORKPAPER 6.1 PAGE 2 OF 3

# PHYSICAL COLLOCATION Verizon - Virginia FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	E	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 6.1, PG 3, LINE 10	-	-	\$251.52	\$251.52
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24H	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 × LINE 2	-	-	\$700.54	\$700.54
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$700.54	\$700.54
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22H	0.0071	-	-	0.0071
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23H	-	0.1282	-	0.1282
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$4.99		-	\$4.99
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$89.79	*	\$89.79
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$4.99	\$89.79	\$700.54	\$795.31
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26G	\$0.78	\$13.96	\$108.93	\$123.66

WORKPAPER 6.1 PAGE 1 OF 3

# PHYSICAL COLLOCATION Verizon - Virginia FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 6.1, PG 2 LINE 10	\$4.99	\$89.79	\$700.54	\$795.31
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.96	\$27.82	\$29.78
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.56	\$7.49	\$39.34	\$47.39
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.27	\$3.58	\$18.81	\$22.66
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.09	\$37.52	\$40.78
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$3.49	\$27.27	\$30.96
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.04	\$0.73	\$5.69	\$6.46
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.24	\$20.34	\$156.46	\$178.03
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26H	\$0.19	\$3.16	\$24.33	\$27.68

WORKPAPER 6.1 PAGE 3 OF 3

# PHYSICAL COLLOCATION Verizon - Virginia FCC NO. 1

#### DC POWER - GREATER THAN 60 AMPS

	<u>A</u>	<u>B</u>	ç	D	Ē	<u> </u>
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col H. Lns 27-30	0.1585	0.4362	0.2869	0.1184
5	Statewide Unit Investment Per AMP	\$11.12	\$0.86	\$4,01	\$2.63	\$3.62
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 ° L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
14	Statewide Unit Investment Per AMP	\$41.08	\$4.40	\$18.34	\$12.06	\$6.28
	Batteries					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
21	Statewide Unit Investment Per AMP	\$37.85	\$6.22	\$16.40	\$10.79	\$4.45
	Automatic Breaker					
22	AMP per Breaker	Engineering	1 600	1,200	800	400
23	Total Investment	Engineering	1,600	\$40.000	\$35,000	\$20,000
23	Unit Investment Per AMP	Engineering (L23 / L22)	\$50,000 \$31.25	\$33,33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Cot H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
26	Statewide Unit Investment Per AMP	\$37.97	\$4.95	\$14.54	\$12.55	\$5.92
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
31	Statewide Unit Investment Per AMP	\$10.73	\$1.38	\$4.25	\$4.07	\$1.03
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg, Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col H, Lns 27-30	0.1585	0.4362	0.2869	0.1184
40	Statewide Unit Investment Per AMP	\$103.77	\$15.33	\$39.03	\$28.48	\$20.92
	Power Blant Distribution Day					
44	Power Plant Distribution Bay	Englisher	2.600	4 000	4 200	200
41 42	AMP Capacity Material	Engineering	2,600	1,200	1,200	300
42 43	Unit Investment Per AMP	Engineering	\$12,747	\$10,388	\$10,388 \$9.66	\$4,993 \$16.64
43 44	Statewide Weighting	(L42 / L41) WP 8.0, Col H, Lns 27-30	\$4.90 0.1585	\$8.66 0.4362	\$8.66 0.2869	\$16.64 0.1184
	<del></del>		0 1585	0.4362		D.1184
45	Statewide Unit Investment Per AMP	\$9.01	\$0.78	\$3.78	\$2.48	\$1.97

Total Unit Investment - (Greater than 60

AMPs) -Sum Lines

(5C+14C+21C+26C+31C+40C + 45C)

\$251.52

WORKPAPER 7.0 PAGE 2 OF 3

# PHYSICAL COLLOCATION Verizon - West Virginia FCC - 1

	A	<u>B</u>	<u>c</u>	Ū	Ē	E
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 7.0, PG 3, LINE 10	-	-	\$304.02	\$304.02
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24I	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$846.76	\$846.76
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$846.76	\$846.76
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22I	0.0103	-	•	0.0103
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23I	-	0.2190	-	0.2190
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$8.68		-	\$8.68
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$185.41	-	\$185.41
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$8.68	\$185.41	\$846.76	\$1,040.86
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26I	\$0.33	\$7.01	\$32.02	\$39.37

WORKPAPER 7.0 PAGE 1 OF 3

## PHYSICAL COLLOCATION Verizon - West Virginia FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 7.0, PG 2 LINE 10	\$8.68	\$185.41	\$846.76	\$1,040.86
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$4.36	\$34.01	\$38.37
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.98	\$15.30	\$46.46	\$62.74
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.51	\$7.94	\$24.10	\$32.54
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.25	\$5.36	\$56.26	\$61.87
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.33	\$6.95	\$31.75	\$39.03
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.09	\$1.98	\$8.98	\$11.05
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$2.16	\$41.88	\$201.56	\$245.60
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26I	\$0.08	\$1.58	\$7.62	\$9.29

WORKPAPER 7.0 PAGE 3 OF 3

#### PHYSICAL COLLOCATION Verizon - West Virginia FCC NO. 1

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	A	B	<u>c</u>	₽	Ē
		nouter.	LINDAN	CHRURRAN	RURAL
LINE NO.	ITEM	SQURCE	URBAN	SUBURBAN	KUKAL
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	2,600	2,600	600
2	Material	Engineering	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
5	Statewide Unit Investment Per AMP	\$20.13	\$1.96	\$2.53	\$15.64
			•		*
	Rectifiers				
6	Quantity	Engineenng	6	6	7
7	AMPS per unit	Engineering	200	200	50
8	Tot. AMPS	( L6 * L7)	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	85.71%
10	Material	Engineering	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11/L8)	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
14	Statewide Unit Investment Per AMP	\$47.65	\$8.98	\$11.57	\$27.11
	Batte <u>ries</u>				
15	Strings	Engineering	3	3	2
16	AMPs per String		310	310	310
17	Tot. AMPS	Engineering (L15 * L16)	930	930	620
18	Total Investment	Engineering	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
21	Statewide Unit Investment Per AMP	\$37.60	\$8.03	\$10.34	
21	Statewide Unit Investment Per AMP	\$37.00	\$6,03	\$10.54	\$19.23
	Automatic Breaker				
22	AMP per Breaker	Engineering	1,200	800	400
23	Total investment	Engineering	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0. Col I, Lns 27-30	0.2135	0.2751	0.5115
26	Statewide Unit Investment Per AMP	\$44.73	\$7.12	\$12.04	\$25.58
07	Power Distribution Service Cabinet	<b>F</b> ootsookso	200	400	***
27	Amps	Engineering	800	400	400
28	Material	Engineering	\$7,788	\$5,677	\$3,467
29 30	Unit Investment Per AMP Statewide Weighting	(L28 / L27) WP 8.0, Col I, Lns 27-30	\$9.74	\$14.19	\$8.67
			0.2135	0.2751	0.5115
31	Statewide Unit Investment Per AMP	\$10.42	\$2.08	\$3.90	\$4.43
	Emergency engine/turbine (auto start)				
32	AMP Capacity	Engineering	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,215	778	304
35	Emerg, Engine Invest.	Engineering	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$108,736	\$77,203	<b>\$</b> 53, <b>68</b> 4
38	Unit Investment Per AMP	(L37 / L34)	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
40	Statewide Unit Investment Per AMP	\$136.80	\$19.10	\$27.31	\$90.39
	Patter, Distribution Fore De				
	Battery Distribution Fuse Bay	<b>-</b>	202	000	
41	AMP Capacity	Engineering	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355
43 44	Unit Investment Per AMP Statewide Weighting	(L42 / L41)	\$6.69 0.3135	\$6.69	\$6.69 0.5116
		WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
45	Statewide Unit Investment Per AMP	\$6.69	\$1,43	\$1.84	\$3.42
	Total Unit Investment - (Less than or				
46	Equal to 60 AMP's) - Sum Lines	\$304.02			
	(5C+14C+21C+26C+31C+40C+45C)				
	( 112 212 213 113 103)				

WORKPAPER 7.1 PAGE 2 OF 3

## PHYSICAL COLLOCATION Verizon - West Virginia FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 7.1, PG 3, LINE 10	-	-	\$310.07	\$310.07
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$863.61	\$863.61
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$863.61	\$863.61
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22I	0.0103	-	-	0.0103
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 231	-	0.2190	-	0.2190
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$8.86		-	\$8.86
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$189.10	-	\$189.10
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$8.86	\$189.10	\$863.61	\$1,061.56
11	WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26I	\$0.33	\$7.15	\$32.66	\$40.15

WORKPAPER 7.1 PAGE 1 OF 3

# PHYSICAL COLLOCATION Verizon - West Virginia FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 7.1, PG 2 LINE 10	\$8.86	\$189.10	\$863.61	\$1,061.56
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$4.44	\$34.69	\$39.13
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$1.00	\$15.60	\$47.39	\$63.99
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.52	\$8.09	\$24.58	\$33.19
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.26	\$5.47	\$57.38	\$63.10
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.33	\$7.09	\$32.38	\$39.81
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.09	\$2.02	\$9.15	\$11.27
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$2.20	\$42.72	\$205.57	\$250.49
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26I	\$0.08	\$1.62	\$7.77	\$9.47

WORKPAPER 7.1 PAGE J OF J

# PHYSICAL COLLOCATION Verizon - West Virginia FCC NO. 1

#### DC POWER - GREATER THAN 60 AMPS

A	В	<u>c</u>	D	Ē	F
LINE NO.	ITEM	SOURCE	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	2,600	2,600	600
2	Material	Engineering	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0 2751	0.5115
5	Statewide Unit Investment Per AMP	\$20.13	\$1.96	\$2.53	\$15.64
	Rectifiers				
6	Quantity	Engineering	6	6	7
7	AMPS per unit	Engineering	200	200	50
8	Tot. AMPS	( L6 * L7)	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	85.71%
10	Material	Engineering	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
14	Statewide Unit Investment Per AMP	\$47.65	\$8.98	\$11.57	\$27,11
	<u>Batteries</u>				
15	Strings	Engineering	3	3	2
16	AMPs per String	Engineering	310	310	310
17	Tot. AMPS	(L15 * L16)	930	930	620
18 19	Total Investment Unit Investment Per AMP	Engineering	\$34,965 £37.60	\$34,965 \$37.60	\$23,310
20	Statewide Weighting	(L18 / L17) WP 8.0, Col I, Lns 27-30	\$37.60 0.2135	\$37.60 0.2751	\$37.60 0.5115
21	Statewide Unit Investment Per AMP	\$37.60	\$8.03	\$10.34	\$19.23
	Automatic Breaker				
22	AMP per Breaker	Engineering	1,200	800	400
23	Total Investment	Engineering	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
26	Statewide Unit Investment Per AMP	\$44.73	\$7.12	\$12.04	\$25.58
	Power Distribution Service Cabinet				
27	Amps	Engineering	800	400	400
28	Material	Engineering	\$7,788	<b>\$</b> 5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
31	Statewide Unit Investment Per AMP	\$10.42	\$2.08	\$3.90	\$4.43
	Emergency engine/turbine (auto start)				
32	AMP Capacity	Engineering	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$78,249	<b>\$5</b> 3, <b>87</b> 1	\$41,874
36	Conduit/Erner Lights	Engineering	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$108,736	<b>\$</b> 77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col 1, Lns 27-30	0.2135	0.2751	0.5115
40	Statewide Unit Investment Per AMP	\$136.80	\$19.10	\$27.31	\$90.39
	Power Plant Distribution Bay				
41	AMP Capacity	Engineering	1,200	1,200	300
42	Material	Engineering	\$10,388	\$10,388	\$4,993
43	Unit Investment Per AMP	(L42 / L41)	\$8.66	\$8.66	\$16.64
44	Statewide Weighting	WP 8.0, Col I, Lns 27-30	0.2135	0.2751	0.5115
45	Statewide Unit Investment Per AMP	\$12.74	\$1.85	\$2.38	\$8.51
	Total Unit Investment - (Greater than 60				

\$310.07

AMPs) -Sum Lines

(5C+14C+21C+26C+31C+40C + 45C)

46

#### WORKPAPER 8.0 PAGE 1 OF 1

#### PHYSICAL COLLOCATION VERIZON: DC, DE, MD, NJ, PA, VA & WV FCC NO. 1

#### **FACTORS**

	A	₿	<u>c</u>	D	Ę	Ē	<u>G</u>	Ħ	Ļ
LINE NO	<u>ITEM</u>	SOURCE	DC <u>Data</u>	DE DATA	MD DATA	NJ DATA	PA DATA	VA DATA	WV DATA
	ANNUAL COST FACTOR								
	- Digital Switch - Power (2212.00)								
1	DEPRECIATION	SERVICE COSTS	0.0398	0.0398	0.0401	0.0398	0.0402	0.0397	0.0402
2	COST OF MONEY	SERVICE COSTS	0.0549	0.0552	0.0556	0.0551	0.0545	0.0562	0.0549
3	INCOME TAX	SERVICE COSTS	0 0290	0.0284	0.0273	0.0286	0.0290	0.0269	0.0285
4	MAINTENANCE	SERVICE COSTS	0.0654	0.0712	0.0501	0.0601	0.0573	0.0536	0.0664
5	ADMINISTRATION	SERVICE COSTS	0.0623	0.0291	0.0429	0.0432	0.0399	0.0389	0.0375
6	OTHER TAX	SERVICE COSTS	0.0029	0.0058	0.0175	0.0124	0.0019	0.0081	0.0106
7	TOTAL- Digital Switch ACF	SUM (LINES 1 THRU LINE 6)	0.2543	0.2294	0.2335	0.2392	0.2229	0.2233	0.2380
	- Land								
8	DEPRECIATION	SERVICE COSTS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	COST OF MONEY	SERVICE COSTS	0.1131	0.1129	0.1128	0.1131	0.1130	0.1128	0.1129
10	INCOME TAX	SERVICE COSTS	0.0598	0.0581	0.0554	0.0587	0.0602	0.0539	0.0586
11	MAINTENANCE	SERVICE COSTS	0.0091	0.0267	0.0257	0.0258	0.0284	0.0344	0.0289
12	ADMINISTRATION	SERVICE COSTS	0.0623 0.0277	0.0291 0.0192	0.0429 0.0175	0.0432	0.0399	0.0389 0.0081	0.0375 0.0107
13	OTHER TAX	SERVICE COSTS SUM (LINES 8 THRU LINE 13)	0.0277	0.2460	0.2543	0.0124 0.2532	0.0471 0.2886	0.2481	0.0107
14	TOTAL- Land ACF	SOM (LINES & THRO LINE 13)	0.2720	0.2460	0.2543	0.2532	0.2000	0.2461	0.2466
	- Building								
15	DEPRECIATION	SERVICE COSTS	0.0165	0.0214	0.0220	0.0217	0.0205	0.0218	0.0235
16	COST OF MONEY	SERVICE COSTS	0.0860	0.0834	0.0834	0.0833	0.0836	0.0834	0.0825
17	INCOME TAX	SERVICE COSTS	0.0454	0.0429	0.0410	0.0432	0.0445	0.0399	0.0428
18	MAINTENANCE	SERVICE COSTS	0.0091	0.0267	0.0257	0.0258	0.0284	0.0344	0.0289
19	ADMINISTRATION	SERVICE COSTS	0.0623	0.0291	0.0429	0.0432	0 0399	0.0389	0.0375
20	OTHER TAX	SERVICE COSTS	0.0277	0.0192	0.0175	0.0124	0.0471	0.0081	0.0107
21	TOTAL - Building ACF	SUM (LINES 15 THRU LINE 20)	0.2470	0.2227	0.2325	0.2296	0.2640	0.2265	0.2259
	-	_							
	OTHER FACTORS:		DC	DE	MD	ИЛ	PA	VA	wv
22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.009166	0.009389	0.007799	0.010591	0.008057	0.007117	0.010255
23	BUILDING INVESTMENT FACTOR	SERVICE COSTS	0.152269	0.199439	0.146989	0.168726	0.175710	0.128173	0.218968
24	POWER INSTALL & ENGR.	SERVICE COSTS	2.7852	2.7852	2.7852	2.7852	2.7852	2.7852	2.7852
2-7	FACTOR FRC (377C)								
25	OVERHEAD LOADING FACTOR	REGULATORY	1.23	1.23	1.23	1.23	1.23	1.23	1.23
26	BA-SOUTH NAL WEIGHTING FACTOR	R SERVICE COSTS	0.03644	0.02566	0.16245	0.29196	0.29019	0.15549	0.03782
27	METRO POWER ZONE WEIGIHTING	ENGINEERING	0.5982	0.3027	0.1763	0.3097	0.2056	0.1585	0.0000
28	URBAN POWER ZONE WEIGHTING	ENGINEERING	0.3750	0.3008	0.5162	0.4901	0.4539	0.4362	0.2135
29	SUBURBAN POWER ZONE WEIGHTIN	N ENGINEERING	0.0268	0.2759	0.1698	0.1724	0.2058	0.2869	0.2751
30	RURAL POWER ZONE WEIGHTING	ENGINEERING	0.0000	0.1207	0.1377	0.0278	0.1347	0.1184	0.5115
31	TOTAL WEIGHTING		1.0000	1.0001	1.0000	1,0000	1.0000	1.0000	1.0001